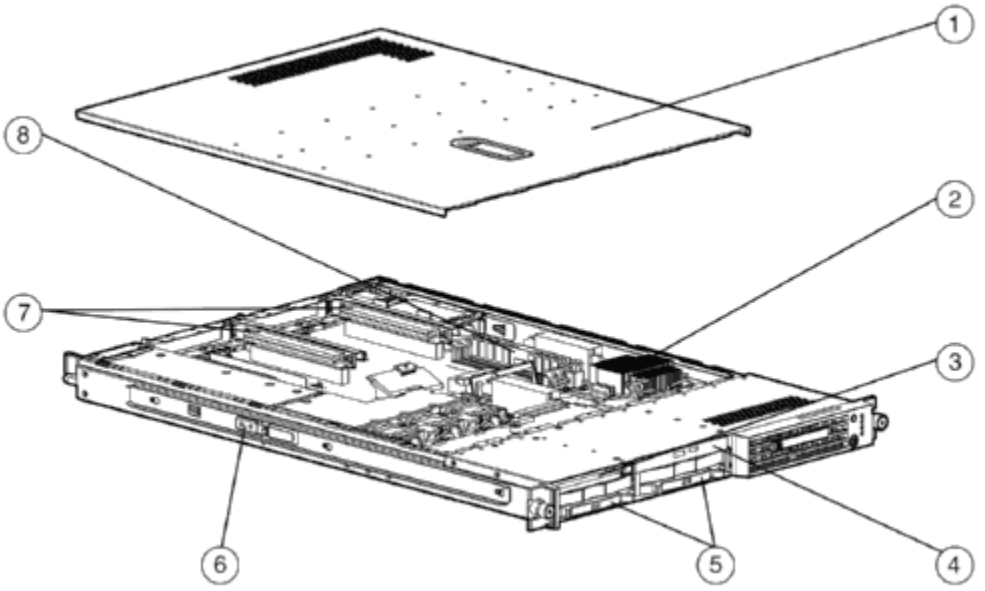
Overview

HP ProLiant DL360 Generation 3 (G3)



1. Tool-free cover
2. Processor (one shown, two supported)
3. 1.44-MB Diskette drive
4. 24x CD-ROM drive (low-profile)
5. Two 1" Wide Ultra 320 SCSI Hot Plug Drive Bays
6. Rack side rails
7. 2 full length PCI-X slots
8. Memory slots

What's New

- Intel® Xeon 3.2 GHz/533 Processor (dual capability) with 2-MB L3 cache
- Intel Xeon 2.8 GHz/533 Processor (dual capability) with 1-MB L3 cache

At A Glance

- Leading the scale out environment with Integrated Lights-Out management, the DL360 offers essential availability features and concentrated 1U compute power for spaced constrained internet and data center environments
- Integrated Lights-Out (iLO) remote management embedded on every DL360
- Up to 2 Intel Xeon 3.2 GHz/2MB, 3.2 GHz/1MB, 3.06 GHz/1MB, 3.06 GHz/512k, 2.8 GHz/1MB or 2.8 GHz/512k Processors with 533MHz front side bus
- 1U Rack form factor (1.75")
- ServerWorks GC -LE Chipset
- Embedded Smart Array 5i Plus RAID Controller with optional BBWC
- Two full length 64-bit/100MHz PCI-X slots (one slot available if redundant power supply is installed)
- 325-Watt hot plug power supply, with optional 1+1 redundancy
- Up to 8GB of 2-way interleaved PC2100 DDR SDRAM running at 266MHz, Advanced ECC memory standard
- Two NC7781 PCI-X Gigabit NICs (embedded)
- Supports up to two 1" Ultra320 (only) hot plug hard drives
- Exceptional serviceability with optional sliding rails, cable management and in-rack, tool-free access
- ProLiant Essential Foundation Pack standard, including SmartStart, Insight Manager, ROM Based Setup Utility (RBSU), and Subscriber's Choice
- Protected by HP Services, including a three-year, next business day on-site limited global warranty and extended Pre-Failure Warranty which covers processors, memory, and hard drives - Certain restrictions and exclusions apply. Consult the HP Customer Support Center at 1-800-345-1518 for details.

Standard Features

Processor One of the following depending on Model	Intel Xeon Processor 3.2 GHz/533MHz -2MB Intel Xeon Processor 3.2 GHz/533MHz -1MB Intel Xeon Processor 3.06 GHz/533MHz -1MB Intel Xeon Processor 2.8 GHz/533MHz -1MB Intel Xeon Processor 3.06 GHz/533MHz -512KB Intel Xeon Processor 2.8 GHz/533MHz -512KB
Cache Memory One of the following depending on Model	2-MB Level 3 cache **NOTE:** Available with some 3.2 GHz models. 1-MB Level 3 cache **NOTE:** Available with 3.2 GHz, 3.06 GHz, or 2.8 GHz models. 512-KB Level 2 cache **NOTE:** Available with 2.8 GHz, and some 3.06 GHz models.
Upgradability	Upgradeable to dual processing
Chipset	ServerWorks GC - LE Chipset **NOTE:** For more information regarding ServerWorks, please see the following URL: http://www.serverworks.com/products/overview.html.
Memory	Standard: 1 GB (2 x 512-MB) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz Maximum: 8 GB
Network Controller	Two NC7781 PCI-X Gigabit NICs (embedded)
Expansion Slots	I/O (2 Total) — PCI Voltage 64-bit, 100MHz — 2 slots — 3.3 Volt **NOTE:** 1 PCI-X slot available when hot plug redundant power supply is installed.
Manageability	Integrated Lights-Out (iLO) Management (integrated on motherboard)
Storage Controllers	Smart Array 5i Plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 Generation 3 (G3) does not offer an external SCSI port.
Storage	Diskette Drive: 1.44 MB Diskette Drive (fixed) Optical Drive: 24x IDE CD-ROM Drive (Low-Profile) (ejectable) Hard Drives: None ship standard; system supports up to two 1" hot plug U320 drives Maximum Internal Storage: 600 GB (2 x 300 GB Ultra320 SCSI Disk Drive)

Standard Features

Interfaces	Serial	1
	Pointing Device (Mouse)	1
	Graphics	1
	Hot Plug Keyboard	1
	USB	2
		NOTE: Please see the following URL for additional information regarding USB support: http://h18004.www1.hp.com/products/servers/platforms/usb-support.html.
	Network RJ-45	2
	iLO remote management port	1
Graphics	Integrated ATI RAGE XL Video Controller with 8-MB SDRAM Video Memory	
Form Factor	Rack (1U), (1.75 in/4.45 cm)	
ProLiant Essentials Foundation Pack Software	HP Systems Insight Manager	HP's new HP Systems Insight Manager (HP SIM) helps maximize system uptime and performance and reduce system maintenance costs by providing proactive notification of problems before those problems result in unplanned downtime or reduced productivity. HP SIM are both easy to set up work with the Insight Management Agents, integrated Light-Out and Remote Insight Light-Outs Edition, and Version Control Agents to deliver robust fault, configuration, and asset management as well as remote administration. With HP SIM customers will also be able to take advantage of role-based security; the ability to manage ProLiant, Integrity, and HP 9000 systems; and plug-ins for storage, client, printer, and power management as well as server rapid deployment, performance management, and workload management. For more details on HP SIM visit http://www.hp.com/go/hpsim.
	SmartStart	SmartStart is a tool that simplifies server setup, providing a rapid way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at http://www.hp.com/servers/smartstart. SmartStart version supported (minimum): SmartStart 6.10.
	Management Agents	The Management Agents form the foundation for HP's Intelligent Manageability strategy. They provide direct, browser-based access to in-depth instrumentation built into HP servers, workstations, desktops, and portables, and send alerts to Insight Manager 7 and other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HP, please visit the management Web site at http://www.hp.com/servers/manage.
	Subscriber's Choice	Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at www.hp.com/go/subscriberschoice and customize your profile to receive various new alerts as they become available, on a weekly or monthly basis.

Standard Features

ROMPaq, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options available in SmartStart or downloadable from Software and Drivers download pages, linked from the SmartStart website at www.hp.com/servers/smartstart.
Survey Utility and diagnostics utilities	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart.
Optional ProLiant Essentials Value Packs	Optional software offerings that selectively extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: • Rapid Deployment Pack - an automated solution for multi-server deployment and provisioning, enabling companies to quickly and easily adapt to changing business demands. • Workload Management Pack - provides easier management of complex environments, improving overall server utilization and enabling Windows® 2000 customers for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server. • Integrated Lights-Out Advanced Pack - upgrades the Integrated Lights-Out processor to full virtual presence and control with graphical console and virtual media. • Recovery Server Option Pack - entry-level high availability software that will provide reliable protection and increased uptime against server hardware and operating system failures. • Performance Management Pack - a performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources.

NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information.
NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessential.

Industry Standard Compliance	ACPI 1.0b Compliant PCI 2.2 Compliant Microsoft® Logo certifications

Standard Features

Intelligent Manageability

Integrated Lights-Out (iLO) Standard Management

- Virtual Text Remote Console
- Virtual Power Button Control
- Dedicated LAN Connectivity
- Automatic IP Configuration via DHCP/DNS/WINS
- Industry Standard 128-bit Secure Sockets Layer (SSL) Security
- IML and iLO Event Logging
- Support for 12 user accounts with customizable access privilege

Integrated Lights-Out (iLO) Advanced Pack (supports Advanced features such as Graphical Remote Console and Virtual Floppy - available as a separate option)
HP Insight Manager 7
HP Systems Insight Manager
Remote Insight Lights-Out Edition II (optional)
ROM-Based Setup Utility (RBSU)
Integrated Management Log (IML)
Server Health logging
Automatic Server Recovery-2 (ASR-2)
System Interconnect Status Indicators
Remote-Flash Redundant ROM
Hot Spare Boot
(**NOTE:** Upon the event of a failed processor or VRM in a multi-processing environment, the system will automatically reboot and use the remaining good processor(s).)
Power Down Utility
Pre-Failure Warranty (covers processors, as well as hard drives and memory)
Dynamic sector repairing and drive parameter tracking (with Smart Array controllers)

Security

Power-on password
Keyboard password
Diskette drive control
Diskette boot control
QuickLock, Network Server Mode
Removable CD/Floppy Drive Assembly
Serial interface control
Administrator's password
Disk configuration lock
Integrated Lights-Out has 12 customizable user accounts and SSL encryption
Integrated Lights-Out can be disabled via a Global Setting

Server Power Cords

High line cord ships standard with all server models, an additional low line cord for US and Japan

Power Supply

325W Optional (1+ 1 redundant) power supply; one PCI-X slot available when redundant power supply is installed
NOTE: PN 293703-B21 contains the optional power supply and an IEC power cable only; purchase if connecting to PDU/UPS that supports IEC cables. PN 293703-001 contains a country-specific low line (NEMA) power cord only.

System Fans

7 fans ship standard

Required Cabling

For required cabling information, refer to the Web site at http://h18000.www1.hp.com/products/servers/proliantdl360/.

Standard Features

OS Support

Microsoft Windows NT® Server
Microsoft Windows 2000
Windows Server 2003
Novell NetWare
Linux (Red Hat, SuSE)

NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix page at: http://www.hp.com/go/supportos.
NOTE: For a listing of the latest drivers available for the ProLiant DL360, please see: http://h18023.www1.hp.com/support/files/server/us/index.html.
NOTE: For a more complete and up-to-date information on Linux support, please visit HP Linux Web site at http://h18000.www1.hp.com/products/servers/linux/hpLinuxcert.html.
NOTE: For more complete and up-to-date information on how to buy server operating systems from HP please visit the OS product site at: http://h18004.www1.hp.com/products/servers/software/OEM.html

Rack Airflow Requirements

Rack 10000 series Cabinets
The increasing power of new high-performance processor technology requires increased cooling efficiency for rack-mounted servers. The 10000 Series Racks provide enhanced airflow for maximum cooling, allowing these racks to be fully loaded with servers using the latest processors.

CAUTION: If a third-party rack is used, observe the following additional requirements to ensure adequate airflow and to prevent damage to the equipment:

- Front and rear doors: If your 42U server rack includes closing front and rear doors, you must allow 830 square inches (5,350 sq cm) of hole evenly distributed from top to bottom to permit adequate airflow (equivalent to the required 64 percent open area for ventilation).
- Side: The clearance between the installed rack component and the side panels of the rack must be a minimum of 2.75 inches (7 cm).

CAUTION: Always use blanking panels to fill all remaining empty front panel U-spaces in the rack. This arrangement ensures proper airflow. Using a rack without blanking panels results in improper cooling that can lead to thermal damage.

NOTE: For additional information, refer to the Setup and Installation Guide or the Documentation CD provided with the server, or to the server documentation located in the Support section at the following URL: http://h18000.www1.hp.com/products/servers/proliantdl360/index.html.

HP Factory Express Capabilities

HP Factory Express gives you the flexibility to choose from a full menu of factory capabilities all in one manufacturing facility, in one process, with one touch giving you full control and access to HP's World class manufacturing facility anytime. This approach provides you the speed to deploy your IT needs, with total quality assurance, reliability, and predictability to lower your total cost of ownership by letting HP install, rack, and customize your software and hardware options for you.

Standard Features

Service and Support

Three-year limited warranty, including hardware diagnostic support, pre-failure warranty (coverage of hard drives, memory and processors). The warranty is fully supported by HP Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HP Care Pack services.

NOTE: Limited warranty includes 3 year parts, 3 year labor, 3-year on-site support

Care Pack services provide a range of life cycle support options that let you choose the service levels that meet your business requirements, from basic to mission-critical.

A full range of HP Care Pack hardware and software services are available including:

- Installation and start up
- Education courses
- Extended onsite hardware coverage hours from same business day 13 hours, 5 day to 24 hours, 7 days call window with options including 4-hour response or 6-hour Call To Repair
- Comprehensive range of software technical support for Microsoft, Linux, ProLiant Essentials and VMWare-based IT solutions helping to deliver high level of application availability. Response times range from 30 mins for critical problems to 2 hours.
- System Management, Performance Services and Mission Critical Support Solution

HP Care Pack Services include HP branded hardware options qualified for the server, purchased at the same time or afterwards, internal to the enclosure, as well as 22" and smaller external monitors and tower UPS options up to 3KVA. 22" and smaller external monitors will be covered at the same service level and coverage period as the server. For servers or storage systems installed within a rack, service also covers all HP qualified rack options installed within the same rack.

NOTE: For more information on HP Care Pack services, contact any of our worldwide sales offices or resellers or visit our worldwide Web site on the internet at: http://www.hp.com/hps/carepack
NOTE: For more complete information on HP Services offerings, customers and resellers, please visit us at: http://www.hp.com/hps
NOTE: Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html

Models

DL360R03 X3.2-2MB/533, 1GB 353829-xx1	**Processor**	(1) Intel Xeon Processor 3.2-GHz/533MHz standard (up to 2 supported)
	Cache Memory	2-MB level 3 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	1 full length 64bit/100MHz PCI-X slot
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL360R03 X3.2-2MB/533, 2GB 353830-xx1	**Processor**	(1) Intel Xeon Processor 3.2-GHz/533MHz standard (up to 2 supported)
	Cache Memory	2-MB level 3 cache
	Memory	2-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Power Supplies	Redundant 325W Hot Plug Power Supplies (1+ 1 redundancy)
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	1 full length 64bit/100MHz PCI-X slot
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Models

DL360R03 X3.2-1MB/533, 2GB 345102-xx1	**Processor**	(1) Intel Xeon Processor 3.2-GHz/533MHz standard (up to 2 supported)
	Cache Memory	1-MB level 3 cache
	Memory	2-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Power Supplies	Redundant 325W Hot Plug Power Supplies (1+ 1 redundancy)
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	1 full length 64bit/100MHz PCI-X slot
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL360R03 X3.2-1MB/533, 1GB 345101-xx1	**Processor**	(1) Intel Xeon Processor 3.2-GHz/533MHz standard (up to 2 supported)
	Cache Memory	1-MB level 3 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	2 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Models

DL360R03 X3.06-1MB/533, 1GB 337054-xx1	**Processor**	(1) Intel Xeon Processor 3.06-GHz/533MHz standard (up to 2 supported)
	Cache Memory	1-MB level 3 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	2 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL360R03 X2.8-1MB/533, 1GB 359383-xx1	**Processor**	(1) Intel Xeon Processor 2.8-GHz/533MHz standard (up to 2 supported)
	Cache Memory	1-MB level 3 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	2 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Models

DL360R03 X3.06-512KB/533, 1GB 322470-xx1	**Processor**	(1) Intel Xeon Processor 3.06-GHz/533MHz standard (up to 2 supported)
	Cache Memory	512-KB level 2 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	2 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL360R03 X3.06-512KB/533, 1GB 322471-xx1	**Processor**	(1) Intel Xeon Processor 3.06-GHz/533MHz standard (up to 2 supported)
	Cache Memory	512-KB level 2 ECC cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Power Supplies	Redundant 325W Hot Plug Power Supplies (1+ 1 redundancy)
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	1 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Models

DL360R03 X2.8-512KB/533, 1GB 292889-xx1	**Processor**	(1) Intel Xeon Processor 2.8-GHz/533MHz standard (up to 2 supported)
	Cache Memory	512-KB level 2 cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	2 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

DL360R03 X2.8-512KB/533, 1GB 308724-xx1	**Processor**	(1) Intel Xeon Processor 2.8-GHz/533MHz standard (up to 2 supported)
	Cache Memory	512-KB level 2 ECC cache
	Memory	1-GB (Standard) to 8-GB (Maximum) of 2-way interleaved capable PC2100 DDR SDRAM running at 266MHz
	Network Controller	Two NC7781 PCI-X Gigabit NICs
	Storage Controller	Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port.
	Hard Drives	None ship standard; system supports up to two 1" hot plug U320 drives **NOTE:** The ProLiant DL360 G3 only supports U320 Universal Hot Plug drives.
	Remote Management	Integrated Lights-Out (iLO) embedded
	Power Supplies	Redundant 325W Hot Plug Power Supplies (1+1 redundancy)
	Optical Drive	24x IDE CD-ROM Drive (Low-profile)
	Diskette Drive	1.44 MB Diskette Drive (fixed)
	PCI-X Slots	1 full length 64bit/100MHz PCI-X slots
	Form Factor	Rack (1U), (1.75 in/4.45 cm)

Country Code Key	**Rack Code Key**
XX=00	US
XX=20	Brazil
XX=29	Japan
XX=37	APD
XX=42	EURO
XX=AA	PRC

Options

ProLiant DL360 G3 Unique Options	Intel Xeon 3.2GHz/533MHz-2MB Processor Option Kit **NOTE:** This processor option kit (PN 353831-B21) supports the ProLiant DL360 G3 only.	353831-B21
	Intel Xeon Processor X3.2 GHz-1MB/533MHz Processor Option Kit **NOTE:** This processor option kit (PN 345103-B21) supports the ProLiant DL360 G3 only.	345103-B21
	Intel Xeon 3.06GHz/533MHz -1MB L3 Processor Option Kit **NOTE:** This processor option kit (PN 337056-B21) supports the ProLiant DL360 G3 only.	337056-B21
	Intel Xeon 2.80GHz/533MHz -1MB L3 Processor Option Kit **NOTE:** This processor option kit (PN 359384-B21) supports the ProLiant DL360 G3 only.	359384-B21
	Intel Xeon 3.06GHz/533MHz-512KB Processor Option Kit **NOTE:** This processor option kit (PN 322472-B21) supports the ProLiant DL360 G3 only.	322472-B21
	Intel Xeon 2.80 GHz/533MHz-512KB Processor Option Kit **NOTE:** This processor option kit (PN 292892-B21) supports the ProLiant DL360 G3 only.	292892-B21
	Intel Xeon 2.40 GHz/533MHz-512KB Processor Option Kit **NOTE:** This processor option kit (PN 292891-B21) supports the ProLiant DL360 G3 only.	292891-B21
	DL360 G2/G3 Universal sliding rail kit	303341-B21
	DL360 G3 DC Power Supply with DC power cord	293704-B21
	325W HP redundant power supply with IEC cord only **NOTE:** The HP ProLiant DL360 G3 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific cords.	293703-B21
	325W HP redundant power supply with US or Japanese NEMA cord only **NOTE:** The HP ProLiant DL360 G3 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific cords.	293703-001

ProLiant Essentials Value Pack Software	Rapid Deployment Pack, 1 User, V1.x **NOTE**: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-B21
	Rapid Deployment Pack, 1 User, V1.x (Japan) **NOTE**: This license allows 1 server to be managed and deployed via the Deployment Server.	267196-291
	Rapid Deployment Pack, 10 Users, V1.x **NOTE**: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-B21
	Rapid Deployment Pack, 10 Users, V1.x (Japan) **NOTE**: This license allows 10 servers to be managed and deployed via the Deployment Server.	269817-291
	ProLiant Essentials Workload Management Pack (Featuring Resource Partitioning Manager version 2.0)	303284-B21

Options

	Flexible Quantity License Kit	302127-B21
	License-Only - for use with a Master License Agreement	302128-B21
	ProLiant Essentials Integrated Lights-Out Advanced Pack (Featuring: sophisticated virtual administration features for ultimate control of servers in the data centers and remote sites)	263825-B21
	ProLiant Essentials Recovery Server Option Pack	280189-B21
	Performance Management Pack, single server **NOTE:** This license allows 1 server to be managed by Performance Management Pack.	306696-B21
	ProLiant Essentials Performance Management Pack, 10 Pack Server License	374055-B21
	Performance Management Pack, flexible license kit **NOTE:** A single pack is shipped with a single license key for the total number of licenses ordered	306697-B21
	ProLiant Essentials Intelligent Networking Pack, 1 License	372906-B21
	ProLiant Essentials Intelligent Networking Pack Flex License	372950-B21
	ProLiant Essentials Intelligent Networking Pack Track License	372951-B21
	ProLiant Essentials Virtual Machine Management Pack, Single-Server License **NOTE:** For use with a single server. Contains one license with a unique license activation key and documentation.	372214-B21
	ProLiant Essentials Virtual Machine Management Pack, Flexible-Quantity License **NOTE:** For use with multiple servers. This part number can be used to purchase multiple licenses with a single activation key.	372215-B21
	ProLiant Essentials Virtual Machine Management Pack, Tracking License **NOTE:** For use with signed and implemented Activation Key Agreements only. Purchase of this part number entitles the customer to deploy additional licenses of the product under the terms of the existing Activation Key Agreement.	372216-B21
	ProLiant Essentials Vulnerability and Patch Management Pack, Single-Server License	371645-B21
	ProLiant Essentials Vulnerability and Patch Management Pack, 10-Server License	372029-B21
	ProLiant Essentials Vulnerability and Patch Management Pack, Flexible-Quantity License	371646-B21
	ProLiant Essentials Vulnerability and Patch Management Pack, Tracking license for new servers	371647-B21
	ProLiant Essentials Vulnerability and Patch Management Pack, Tracking license for installed servers	378372-B21
	NOTE: Flexible and volume quantity license kits are available for ProLiant Essentials Value Packs. Refer to http://www.hp.com/servers/proliantessentials or the various ProLiant Essentials Value Pack product QuickSpecs for more information.	
	NOTE: For more information regarding ProLiant Essentials Software, please see the following URL: http://www.hp.com/servers/proliantessentials.	
Software	HP digital asset protection	302316-001

Options

Processor	Intel Xeon 3.2GHz/533MHz-2MB Processor Option Kit **NOTE:** This processor option kit (PN 353831-B21) supports the ProLiant DL360 G3 only.	353831-B21
	Intel Xeon 3.06GHz/533MHz-1MB Processor Option Kit **NOTE:** This processor option kit (PN 337056-B21) supports the ProLiant DL360 G3 only.	337056-B21
	Intel Xeon 2.80GHz/533MHz -1MB L3 Processor Option Kit **NOTE:** This processor option kit (PN 359384-B21) supports the ProLiant DL360 G3 only.	359384-B21
	Intel Xeon 3.06GHz/533MHz-512KB Processor Option Kit **NOTE:** This processor option kit (PN 322472-B21) supports the ProLiant DL360 G3 only.	322472-B21
	Intel Xeon 2.80 GHz-512KB/533MHz Processor Option Kit **NOTE:** This processor option kit (PN 292892-B21) supports the ProLiant DL360 G3 only.	292892-B21
	Intel Xeon 2.40 GHz-512KB/533MHz Processor Option Kit **NOTE:** This processor option kit (PN 292891-B21) supports the ProLiant DL360 G3 only.	292891-B21
Memory (DIMMs)	512MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 256 MB)	300678-B21
	1024MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 512 MB)	300679-B21
	2048-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x1024 MB)	300680-B21
	4096-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x2048 MB)	300682-B21
Optical Drives	Slimline CD-RW/DVD-ROM Combo Option Kit	331903-B21
	Slimline DVD-ROM Drive (8X/24X) Option Kit (Servers)	264007-B21
Hard Drives	***Ultra320 – Universal Hot Plug*** **NOTE:** The DL360 G3 only supports U320 Universal Hot Plug drives.	
	300-GB 10,000 rpm U320 Universal Hard Drive (1")	350964-B22
	146.8-GB 10,000 rpm U320 Universal Hard Drive (1")	286716-B22
	72.8-GB 10,000 rpm U320 Universal Hard Drive (1")	286714-B22
	72.8-GB 15,000 rpm U320 Universal Hard Drive (1")	286778-B22
	36.4-GB 15,000 rpm U320 Universal Hard Drive (1")	286776-B22
	NOTE: Please see the Hard Drive QuickSpecs for Technical Specifications such as capacity, height, width, interface, transfer rate, seek time, physical configuration, and operating temperature: U320 Hard Drive QS: http://h18000.www1.hp.com/products/quickspecs/11531_div/11531_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11531_na/11531_na.HTML (North America)	

Options

Storage Controllers	Battery Backed Write Cache Enabler Option Kit	255514-B21
	Battery Backed Write Cache Enabler Option Kit (Japan)	255514-291
	Smart Array 6402/128 Controller **NOTE:** For support of external drives only.	273915-B21
	Smart Array 6404/256 Controller **NOTE:** For support of external drives only.	273914-B21
	Smart Array 642 Controller **NOTE:** For support of external drives only.	291967-B21
	128-MB Cache Module for Smart Array 5302 Controller	153506-B21
	256-MB Battery-Backed Cache Module **NOTE:** This 256-MB Battery-Backed Cache Module supports the Smart Array 5300 series controllers, HP StorageWorks Smart Array 1000 and the HP StorageWorks Modular Smart Array 500.	254786-B21
	256MB DDR, Battery-Backed Cache Upgrade Kit for SA-6400 **NOTE:** This 256-MB Battery-Backed Cache Module upgrade kit supports the Smart Array 6400 series controller only.	273913-B21
	128MB Battery-Backed Cache Enabler **NOTE:** This 128MB BBWC supports the Smart Array 641 Controller and Smart Array 642 Controller.	351580-B21
	64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter **NOTE:** For support of external drives only.	268351-B21
	Ultra320 Expansion Module for SA-6402 **NOTE:** For support of external drives only.	273911-B21
	64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS **NOTE:** For support of external drives only.	284688-B21
	NOTE: Please see the following Controller or SCSI Adapter QuickSpecs for Technical Specifications such as PCI Bus, PCI Peak Data Transfer Rate, SCSI Protocols supported, SCSI Peak Data Transfer Rate, Channels, SCSI Ports, Drives supported, Cache, RAID support, and additional information: http://h18000.www1.hp.com/products/quickspecs/10640_div/10640_div.HTML (Smart Array 5300 Series) http://h18000.www1.hp.com/products/quickspecs/11587_div/11587_div.HTML (Smart Array 6400 Series) http://h18000.www1.hp.com/products/quickspecs/12069_div/12069_div.HTML (Smart Array 642) http://h18000.www1.hp.com/products/quickspecs/10429_div/10429_div.HTML (SCSI Adapter) http://h18000.www1.hp.com/products/quickspecs/11555_div/11555_div.HTML (U320 Adapter)	

Communications	NC1020 Cu Gigabit Server Adapter 32 PCI Single Port	353377-B21
	NC6170 Dual Port PCI-X 1000SX Gigabit Server Adapter	313879-B21
	NC6770 PCI-X Gigabit Server Adapter, 1000-SX	244949-B21
	NC7170 Dual Port PCI-X 1000T Gigabit Server Adapter	313881-B21
	NC7771 PCI-X 10/100/1000-T Server Adapter	290563-B21
	NOTE: Any NIC on the option list can be used for redundancy with the embedded NC7781 Network Controller	

Options

Management Options	Remote Insight Lights-Out Edition II (NA, LA)	227251-001
	Remote Insight Lights-Out Edition II (EMEA)	227251-021
	Remote Insight Lights-Out Edition II (ROW)	227251-371
Security	HP/Atalla AXL600L SSL Accelerator Card for ProLiant Servers	524545-B21
	AXL300 Accelerator PCI Card (HW SSL Encryption) for ProLiant Servers	227933-B21
Tape Drives	***External, and Rack-Mount Ultrium Tape Drives***	
	HP StorageWorks Ultrium 215 Tape Drive, External (Carbon)	Q1545A
	HP StorageWorks Ultrium 215 rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit	350544-B21
	HP StorageWorks Ultrium 215 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	C7492B
	HP StorageWorks Ultrium 230 Tape Drive, External (Carbon)	Q1517A
	HP StorageWorks Ultrium 230, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit	350545-B21
	HP StorageWorks Ultrium 230 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	C7470B
	HP StorageWorks Ultrium 460 Tape Drive, External (Carbon)	Q1520A
	HP StorageWorks Ultrium 460, Rack-mount (Carbon) - Single drive installed in a 3U rack-mount kit	350546-B21
	HP StorageWorks Ultrium 460 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	Q1512B
	HP StorageWorks Ultrium 960 Tape Drive, External (Carbonite) Q1539A	Q1539A
	HP StorageWorks Ultrium 960 Rack-mount (Carbonite) - Single drive installed in a 3U rack-mount kit	Q1595A
	NOTE: Please see the HP StorageWorks Ultrium 215, 230, and 460 Tape Drive QuickSpecs for additional options such as controllers, media, and other related items: http://h18006.www1.hp.com/products/quickspecs/11739_div/11739_div.html (Worldwide) http://h18006.www1.hp.com/products/quickspecs/11739_na/11739_na.html (North America) http://h18006.www1.hp.com/products/quickspecs/12128_div/12128_div.html (Worldwide) http://h18006.www1.hp.com/products/quickspecs/12128_na/12128_na.html (North America)	
	For an up-to-date listing of the latest O/S and software support details for HP Ultrium tape drives, please visit: http://www.hp.com/go/connect	
	External and Array Module DAT Drives	
	HP StorageWorks DAT 72 Tape Drive, External (Carbon)	Q1523A
	HP StorageWorks DAT 72 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	Q1524B
	HP StorageWorks DAT 40 Tape Drive, External (Carbon)	C5687C
	HP StorageWorks DAT 40 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	C7497B
	HP StorageWorks DAT 24e Tape Drive, External (Flint)	C1556D
	HP StorageWorks DAT 24 Array Module (Carbon) - Offline hot-swap drive for Tape Array 5300	C7498A
	NOTE: Please see the DAT Tape Drive QuickSpecs for controllers, media, and	

other options:
http://h18000.www1.hp.com/products/quickspecs/11883_div/11883_div.HTML (Worldwide)
http://h18000.www1.hp.com/products/quickspecs/11883_na/11883_na.HTML (North America)
For an up-to-date listing of the latest O/S and software support details for HP DAT drives, please visit: http://www.hp.com/go/connect

External DLT VS Tape Drives

HP StorageWorks DLT VS80 Tape Drive, External (Carbon) NA	337699-B22
HP StorageWorks DLT VS80 Tape Drive, External (Carbon) Int'l	337699-B31
HP StorageWorks DLT VS80 Tape Drive, External (Carbon) Japan	337699-291

NOTE: Please see the DLT VS80 Tape Drive QuickSpecs for additional options such as host bus adapters, controllers, media, and other options:
http://h18006.www1.hp.com/products/quickspecs/11403_div/11403_div.HTML (Worldwide)
http://h18006.www1.hp.com/products/quickspecs/11403_na/11403_na.HTML (North America)
For an up-to-date listing of the latest O/S and software support details for the DLT VS80, please visit: http://www.hp.com/go/connect

External SDLT Tape Drives

HP StorageWorks SDLT 320 Tape Drive, External (Carbon) NA	257319-001
HP StorageWorks SDLT 320 Tape Drive, External (Carbon) Int'l	257319-B31
HP StorageWorks SDLT 320 Tape Drive, External (Carbon) Japan	257319-291

NOTE: Please see the SDLT 320 Tape Drive QuickSpecs for additional options such as adapters, controllers, and media.
http://h18006.www1.hp.com/products/quickspecs/11840_div/11840_div.HTML (Worldwide)
http://h18006.www1.hp.com/products/quickspecs/11840_na/11840_na.HTML (North America)
For an up-to-date listing of the latest O/S and software support details for HP SDLT tape drives, please visit: http://www.hp.com/go/connect

Rack-Mount Tape Drive Enclosures

HP StorageWorks 1U Rack-Mount Kit — A7445A
NOTE: The 1U Rack-mount Kit can support up to 2 half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including DAT 24, DAT40, DAT72, DLT VS 80, and Ultrium 215 tape drives.

HP StorageWorks 3U Rack-Mount Kit — 274338-B21
NOTE: The 3U Rack-Mount Kit can support up to 2 full-height or 4 half-height tape drives and compatible with multiple Single-Ended and LVD SCSI tape drives including DAT, DLT VS80, SDLT 320, Ultrium 215, Ultrium 230, and Ultrium 460 Tape Drives.

HP StorageWorks 5U Rack-Mount Kit — 274339-B21
NOTE: The 5U Rack-Mount Kit can support up to 4 full-height tape drives and is compatible with SDLT 320, Ultrium 230, and Ultrium 460 tape drives.

NOTE: Please see the Rack-Mount Tape Drive Kits QuickSpecs for additional information regarding these kits:
http://h18000.www1.hp.com/products/quickspecs/10854_div/10854_div.HTML (Worldwide)
http://h18000.www1.hp.com/products/quickspecs/10854_na/10854_na.HTML (North America)

HP StorageWorks Tape Array 5300 — C7508A
NOTE: The Tape Array 5300 is a 3U enclosure that supports up to 2 full-height or 4 half-height hot-swap array modules, including DAT and Ultrium tape drives. Cables and terminators are not included and must be ordered separately.

Options

	NOTE: Please see the Tape Array 5300 QuickSpecs for additional information regarding this product. http://h18000.www1.hp.com/products/quickspecs/11878_div/11878_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11878_na/11878_na.HTML (North America)	
	Accessories for 3U & 5U Rack-mount Tape Drive Kits	
	LVD Cable Kit, VHDCI/HD68	168048-B21
	NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only.	
	LVD Cable Kit, HD68/HD68	242381-B21
	NOTE: For use with the 3U Rack-mount Kit and 5U Rack-mount Kit only.	
	Accessories for 3U & 5U Rack-mount Tape Drive Kits	
	PSU/Fan Upgrade Kit - Redundant hot-swap power supply unit and fan for Tape Array 5300.	
	68-pin HD multi-mode terminator	C2364A
	1.0m 68-pin VHDCI to 68-pin HD cable	C2361B
	2.5m 68-pin VHDCI to 68-pin HD cable	C2362B
	5.0m 68-pin VHDCI to 68-pin HD cable	C2365A
	10.0m 68-pin VHDCI to 68-pin HD cable	C2363B
	0.5m 68-pin HDI to 68-pin HD cable LVD/SE	C2978B
	1.5m 68-pin HDI to 68-pin HD cable LVD/SE	C2979B
	0.9m 68-pin HDI to 68-pin HD cable LVD/SE	C2911C
	2.5m 68-pin HDI to 68-pin HD cable LVD/SE	C2924C
	NOTE: For use with Tape Array 5300 only	
Tape Autoloaders	**DAT Autoloader**	
	HP StorageWorks DAT 72x6 External Autoloader	Q1567A
	NOTE: Please see the DAT Tape Autoloader QuickSpecs for additional options such as host bus adapters, controllers and media: http://h18000.www1.hp.com/products/quickspecs/11985_div/11985_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/11985_na/11985_na.HTML (North America)	
	HP StorageWorks 1/8 Tape Autoloader	
	1/8 Ultrium 460 Tape Autoloader, Tabletop	AA927A
	1/8 SDLT 320 Tape Autoloader, Tabletop	AA926A
	1/8 Ultrium 230 Tape Autoloader, Tabletop	C9572CB
	1/8 DLT VS80 Tape Autoloader, Tabletop	C9264CB
	1/8 Tape Autoloader Rackmount Kit	C9268R
	NOTE: Required to install the 1/8 tape autoloader in a standard 19-inch rack	
	NOTE: Please reference the 1/8 Tape Autoloader QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs	
	HP StorageWorks SSL1016 Tape Autoloader	
	SSL1016 Ultrium 460 Tape Autoloader	330821-B21
	SSL1016 SDLT 320 Tape Autoloader	330816-B21

Options

NOTE: Please reference the SSL1016 Tape Autoloader QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

Tape Libraries

HP StorageWorks MSL6000 Tape Library

MSL6030, 1 drive, 30 slots, Ultrium 460, RM	330731-B22
MSL6030, 2 drive, 30 slots, Ultrium 460, RM	330731-B23
MSL6030, 1 drive, 30 slots, Ultrium 460, RM with embedded FC router	330731-B24
MSL6030, 2 drive, 30 slots, Ultrium 460, RM with embedded FC router	330731-B25
MSL6030, 1 drive, 30 slots, Ultrium 460, TT	330788-B21
MSL6030, 2 drive, 30 slots, Ultrium 460, TT	330788-B22
MSL6060, 2 drive, 60 slot, Ultrium 460, RM	331196-B21
MSL6060, 2 drive, 60 slot, Ultrium 460, RM with embedded FC router	331196-B22
MSL6060, 2 drive, 60 slot, Ultrium 460, TT	331195-B21

NOTE: Please reference the MSL6000 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

HP StorageWorks MSL5026S2 Tape Library

MSL5026S2, 1 drive, 26 slots, SDLT 320, RM

MSL5026S2, 2 drive, 26 slots, SDLT 320, RM

MSL5026S2, 1 drive, 26 slots, SDLT 320, RM with embedded FC router

MSL5026S2, 2 drive, 26 slots, SDLT 320, RM with embedded FC router

MSL5026S2, 1 drive, 26 slots, SDLT 320, TT

MSL5026S2, 2 drive, 26 slots, SDLT 320, TT

NOTE: Please reference the MSL5026S2 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

HP StorageWorks MSL5052S2 Tape Library

MSL5052S2, 2 drive, 52 slots, SDLT 320, RM

MSL5052S2, 2 drive, 52 slots, SDLT 320, RM with embedded FC router

MSL5052S2, 2 drive, 52 slots, SDLT 320, TT

NOTE: Please reference the MSL5052S2 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

HP StorageWorks MSL5030 Tape Library

MSL5030, 1 drive, 30 slots, Ultrium 230, RM	301897-B22
MSL5030, 2 drive, 30 slots, Ultrium 230, RM	301897-B23
MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router	301897-B24
MSL5030, 2 drive, 30 slots, Ultrium 230, RM with embedded FC router	301897-B25
MSL5030, 1 drive, 30 slots, Ultrium 230, TT	301898-B21
MSL5030, 2 drive, 30 slots, Ultrium 230, TT	301898-B22

NOTE: Please reference the MSL5030 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.

HP StorageWorks MSL5060 Tape Library

MSL5060, 2 drive, 60 slots, Ultrium 230, RM	301899-B22

Options

	MSL5060, 2 drive, 60 slots, Ultrium 230, RM with embedded FC router	301899-B23
	MSL5060, 2 drive, 60 slots, Ultrium 230, TT	301900-B21
	NOTE: Please reference the MSL5060 Tape Library QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.	
	HP StorageWorks ESL E-Series Tape Libraries	
	ESL Extended 712e Tape Library, 0 drive, 712 LTO slots	AA934B
	ESL Extended 630e Tape Library, 0 drive, 630 SDLT slots	AA935B
	ESL Extended 322e Tape Library, 0 drive, 322 LTO slots	AA939B
	ESL Extended 286e Tape Library, 0 drive, 286 SDLT slots	AA940B
	ESL E-Series Ultrium 460 drive kit	AA937A
	ESL E-Series Ultrium 460-FC drive kit	AA941A
	ESL E-Series SDLT 320 drive kit	AA936A
	ESL E-Series e2400-FC 2G Interface Controller	AA928A
	NOTE: Please reference the ESL E-Series Tape Libraries QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs	
	HP StorageWorks ESL9000 Series Tape Libraries	
	ESL9595 Extended Tape Library, 0 drive, 400 slots (card cage, Interface Mgr card, Command View license)	343378-B21
	ESL9322 Extended Tape Library, 0 drive, 222 slots (card cage, Interface Mgr card, Command View license)	343377-B21
	ESL9000 Ultrium 460 drive kit	330834-B21
	ESL9000 Ultrium 230 drive kit	301930-B21
	ESL9000 SDLT 320 drive kit	293414-B21
	NOTE: Please reference the ESL9000 Series Tape Libraries QuickSpecs at http://www.hp.com/go/automation for additional information needed to create a complete solution; reference current compatibility information at http://www.hp.com/go/ebs.	
Magneto-Optical Jukeboxes	**HP StorageWorks 9.1 GB Mid-range Optical Jukeboxes**	
	300mx, 2 drive, 32 slot jukebox	C1150M
	600mx, 4 drive, 64 slot jukebox	C1160M
	700mx, 2 drive, 76 slot jukebox	C1170M
	NOTE: Please reference the Magneto-Optical Jukebox data sheets at http://www.hp.com/go/optical for additional information needed to create a complete solution.	
	HP StorageWorks 9.1 GB High-end Optical Jukeboxes	
	1200mx, 4 drive, up to 128 slots	C1104M
	2200mx, 4 drive, up to 238 slots	C1105M
	2200mx, 4 drive, up to 238 slots	C1111M
	2200mx, 6 drive, up to 238 slots	C1107M
	2200mx, 10 drive, up to 238 slots	C1110M
	Ultra Density Optical Jukeboxes	
	1000ux, 2 drive, 32 slot jukebox	AA965A
	1900ux, 4 drive, 64 slot jukebox	AA966A
	1900ux, 4 mixed drive, 64 slot jukebox	AA968A
	2300ux, 2 drive, 76 slot jukebox	AA967A
	3800ux, 4 drive, 128 slot jukebox	AA969A
	3800ux, 6 drive, 128 slot jukebox	AA970A

Options

	7100ux, 4 drive, 238 slot jukebox	AA973A
	7100ux, 10 drive, 238 slot jukebox	AA972A
	7100ux, 6 mixed drive, 238 slot jukebox	AA974A
Power Cords	**NOTE:** The ProLiant DL360 G3 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S. & Japan models will ship with two power cords: IEC-IEC (142257-002) and North American C13-Nema 5-15P (103541-001) cords.	
	Power Cord, Euro, 10A 250 V Straight (12 ft/3.7 m)	157215-021
	Power Cord, UK, 10A 250 V Straight (12 ft/3.7 m)	157216-031
	Power Cord, Danish, 10A 250 V Straight (12 ft/3.7 m)	157218-081
	Power Cord, Swiss, 10A 250 V Straight (12 ft/3.7 m)	157219-111
	Power Cord, Italian, 10A 250 V Straight (12 ft/3.7 m)	157217-061
	Power Cord, South Africa, 10A 250 V Straight (12 ft/3.7 m)	157220-AR1
External Storage - Rack	HP StorageWorks Modular Smart Array 30 SB **NOTE:** Rack-mountable 14 drive enclosure with single bus, redundant power supplies.	302969-B21
	HP StorageWorks Modular Smart Array 30 DB **NOTE:** Rack-mountable 14 drive enclosure with dual bus, redundant power supplies.	302970-B21
	NOTE: The Modular Smart Array Enclosure 30 Family supports the Wide Ultra3, Ultra320 1" Hot Plug Hard Drives.	
	StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - WW	359079-B21
	StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - Japan	359079-291
	StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - APD	359079-371
	StorageWorks Modular Smart Array 30 OpenView Storage Mirroring HA Kit - EURO	359079-421
	Redundant Power Supply 499W	338296-B21
	Ultra320 Single Bus I/O Module for MSA30	287484-B21
	Ultra320 Dual Bus I/O Module for MSA30	287483-B21
HP StorageWorks Modular Smart Array 1500	Modular Smart Array 1500 Controller Shelf **NOTE:** Please see the StorageWorks Modular SAN Array 1500 QuickSpecs for additional options and configuration information at: http://www.hp.com/go/MSA1500cs	AA986A
HP StorageWorks Modular Smart Array 1000	HP StorageWorks Modular Smart Array 1000 **NOTE:** Please see the Modular Smart Array 1000 QuickSpecs for additional options and configuration information at http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)	201723-B22

Options

StorageWorks Modular Array 8000/Enterprise Modular Array 12000	StorageWorks SAN Director 64 **NOTE:** Please see the StorageWorks SAN Director 64 QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/11003_na/11003_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11003_div/11003_div.HTML (Worldwide)	254512-B21
StorageWorks Options	64-bit/66-MHz Fibre Channel Host Adapter **NOTE:** The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the HP RAID Array 4000 family of products, the Enterprise Backup Solution, and the RAID Array 8000 under NetWare.	120186-B21
	64-bit/66-MHz Fibre Channel Host Adapter (Japan) **NOTE:** The 64-bit/66-Mhz Fibre Channel Host Adapter has been qualified for use with the HP RAID Array 4000 family of products, the Enterprise Backup Solution (EBS) offerings, and the RAID Array 8000 under NetWare.	120186-291
	StorageWorks Director 2/64 **NOTE:** Please see the StorageWorks Director 2/64 QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/11003_na/11003_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11003_div/11003_div.HTML (Worldwide)	286809-B21
	StorageWorks SAN Switch 2/8-EL	322120-B21
	StorageWorks SAN Switch 2/8-EL Upgrade	325888-B21
	StorageWorks SAN Switch 2/16	322118-B21
	StorageWorks SAN Switch 2/16-EL Upgrade	325889-B21
HP StorageWorks Modular Smart Array 500	HP StorageWorks Modular Smart Array 500 **NOTE:** Please see the Modular Smart Array 500 QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at: http://h18000.www1.hp.com/products/quickspecs/11050_na/11050_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11050_div/11050_div.HTML (Worldwide)	201724-B21

Options

Cluster Options	ProLiant Cluster Starter Kit	364023-B21
	NOTE: For additional information regarding the ProLiant Cluster Starter Kit please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11935_na/11935_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11935_div/11935_div.html (Worldwide)	
	ProLiant Cluster Kit with OpenView Storage Mirroring	364025-B21
	NOTE: For additional information regarding the ProLiant Cluster Kit with OpenView Storage Mirroring please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11934_na/11934_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11934_div/11934_div.html (Worldwide)	
	ProLiant Cluster HA/F200 for the Entry Level SAN	364026-B21
	ProLiant Cluster HA/F200 for the Entry Level SAN (Japan)	364026-291
	NOTE: For additional information regarding the ProLiant Cluster for Entry Level SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11932_na/11932_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11932_div/11932_div.html (Worldwide)	
	ProLiant Cluster HA/F500 for the Enterprise SAN	364024-B21
	NOTE: For additional information regarding the ProLiant Cluster HA/F500 for Enterprise SAN please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11933_na/11933_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11933_div/11933_div.html (Worldwide)	
	HP Serviceguard for Linux ProLiant Cluster (2 node license cluster kit for Red Hat AS 2.1) A.11.14	305199-B22
	NOTE: Kit includes 2 licenses, documentation and an Ethernet crossover cable.	
	HP Serviceguard for Linux ProLiant Cluster (2 node license cluster kit) A.11.15	305199-B24
	NOTE: Kit includes 2 licenses, documentation and an Ethernet crossover cable.	
	HP Serviceguard for Linux (single license version for ordering flexibility and to ease ordering for larger cluster for Red Hat AS 2.1) A.11.14	307754-B22
	NOTE: Kit includes single license version and documentation.	
	HP Serviceguard for Linux (single license version for ordering flexibility and to ease ordering for larger cluster) A.11.15	307754-B24
	NOTE: Kit includes single license version and documentation.	
	NOTE: For additional information regarding the HP Serviceguard for Linux License, please see the following QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/11518_na/11518_na.html (North America) http://h18000.www1.hp.com/products/quickspecs/11518_div/11518_div.html (Worldwide)	

Options

UPS Power Cord Matrix	**Please see the UPS Power Cord Matrix for cable descriptions, requirements, and specifications for UPS units:** ftp://ftp.compaq.com/pub/products/servers/proliantstorage/power-protection/powercordmatrix.pdf.	
Uninterruptible Power Systems – Rack Mountable	HP UPS R1500 XR (1440VA, 1340 Watt), Low Voltage (NA)	204404-001
	HP UPS R1500 XR (1500VA, 1340 Watt), High Voltage (Int'l)	204404-B31
	HP UPS R1500 XR (1500VA, 1340 Watt), Low Voltage (Japan)	204404-291
	HP UPS R3000 XR (2880VA, 2700 Watt), Low Voltage (NA)	192186-001
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (NA)	192186-002
	HP UPS R3000 XR (2400VA, 2250 Watt), Low Voltage (Japan)	192186-291
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Japan)	192186-292
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (Int'l - detachable cord)	192186-B31
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A IEC309 Plug)	192186-B32
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A CEE 7/7 SCHUKO Plug)	192186-B33
	HP UPS R3000 XR (3000VA, 2700 Watt), High Voltage (16A BS-546 Plug)	192186-AR1
	HP UPS R5500 XR, (5000VA, 4500 Watt), High Voltage (NA/Jpn)	326529-D71
	HP UPS R5500 XR, (6000VA, 5400 Watt), High Voltage (Int'l)	326529-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (NA)	347207-001
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Int'l)	347207-B31
	Rack-Mountable UPS R6000 (6000VA, 6000 Watt) High Voltage (Japan)	347207-291
	HP UPS R12000 XR, N+ x (12KVA, 12KW) High Voltage (WW)	207552-B22
	NOTE: UPS R6000 has a hardwired input; and the UPS R12000 XR has a hardwired input and output connection.	
HP Power Distribution Unit with Power Monitoring	HP Power Distribution Unit with Power Monitoring Model S2324 - dual input, 3 phase, 24A (NA/JPN)	370959-D71
	HP Power Distribution Unit with Power Monitoring Model S1324 - single input, 3 phase, 24A (NA/JPN)	370960-D71
	HP Power Distribution Unit with Power Monitoring Model S2140 - dual input, 1 phase, 40A (NA/JPN)	370961-D71
	HP Power Distribution Unit with Power Monitoring Model S1140 - single input, 1 phase, 40A (NA/JPN)	370962-D71
	HP Power Distribution Unit with Power Monitoring Model S2316 - dual input, 3 phase, 16A (INTL)	370963-B31
	HP Power Distribution Unit with Power Monitoring Model S1316 - single input, 3 phase, 16A (INTL)	370964-B31
	HP Power Distribution Unit with Power Monitoring Model S2132 - dual input, 1 phase, 32A (INTL)	370965-B31
	HP Power Distribution Unit with Power Monitoring Model S1132 - single input, 1 phase, 32A (INTL)	370966-B31

Options

Modular PDUs 1U/0U (Up to 32 outlets) **NOTE:** 1U/0U mounting brackets shipped with the unit (optimized for 10000 and 9000 series racks).	HP Modular Power Distribution Units (mPDU), Low Volt Model, 24A (100-127 VAC) (NA, Japan)	252663-D71
	NOTE: This mPDU (252663-D71) may also be used to connect the low volt model of the UPS R3000 XR.	
	HP Modular Power Distribution Units (mPDU), High Volt Model, 24A (200-240 VAC) (NA, Japan)	252663-D72
	HP Modular Power Distribution Units (mPDU), High Volt Model, 32A (200-240 VAC) (Int'l)	252663-B31
	HP Modular Power Distribution Units (mPDU), High Volt Model, 40A (200-240 VAC) (WW)	252663-B21
	NOTE: This mPDU (252663-B21), 40A model has a hardwired input.	
	HP Modular Power Distribution Units (mPDU), High Volt Model, 16A (200-240 VAC) (WW)	252663-B24
	NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements. This model may also be used with the high volt UPSs R3000 XR and R6000 For North America, need to order cable PN 340653-001.	
	NOTE: Please see the following Modular Power Distribution Unit (Zero-U/1U Modular PDUs) QuickSpecs for additional options including shorter jumper cables and country specific power cords: http://h18000.www1.hp.com/products/quickspecs/11041_na/11041_na.HTML (North America) http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.HTML (Worldwide)	

USB Options	USB Optical Scroll Mouse (Carbonite)	DD441B
	USB 1.44-MB External Diskette Drive (Carbonite)	DC141B
	USB Easy Access Keyboard (Carbonite/Silver)	DC168B#

USB Easy Access Keyboard (Carbonite/Silver) Country Key Code

Dash #	Description	Dash #	Description
A2M	ICELAND	ABT	HE
AB0	TAWA	ABU	UK
AB1	KOR	ABV	ARA
AB2	PRC	ABX	FIN
AB6	FRA	ABY	DEN
AB7	GRK	ABZ	ITL
AB8	TURK	AC0	BEL
AB9	PORT	AC4	BRZ
ABA	US	ACB	RUSS
ABB	EURO	AKB	CZE
ABC	FCAN	AKC	HUNG
ABD	GR	AKD	POL
ABE	SP	AKL	THAI
ABF	FR	AKN	BHCSY
ABH	NL	AKR	SLOV
ABJ	Japan	ARK	ICELAND
ABM	LA	B15	KAZ
ABN	NOR	UUZ	SWISS
ABS	SW		

Options

Customer Builder	Please see the Enterprise Configurator for configuration assistance at: www.hp.com/products/configurator.	
ProLiant DL360 G3 Deployment Options	DL360 G2/G3 Universal sliding rail kit	303341-B21
	DL360 Telco Rack Option Kit	251243-B21
	325W HP redundant power supply with IEC cord only **NOTE:** The HP ProLiant DL360 G3 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific cords.	293703-B21
	325W HP redundant power supply with US or Japanese NEMA cord only **NOTE:** The HP ProLiant DL360 G3 ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For stand-alone deployments or installation without a rack, country-specific power cord options are available. U.S., Japan, & APD models ship with two power cords: IEC-IEC and country-specific cords.	293703-001
	Vertical-Mount PDU Bracket with High Voltage Cables **NOTE:** In order to deploy a HP Power Distribution Unit (PN's 295363-xxx ONLY) in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the HP Rack Solution Overview whitepaper at http://www.compaq.com/support/techpubs/index.html for more information.	166097-B21
	Vertical-Mount PDU Bracket **NOTE:** In order to deploy a HP Power Distribution Unit (PN's 295363-xxx ONLY) in the side of a rack cabinet next to the ProLiant DL360 units, you must purchase the Vertical-Mount PDU Bracket with High Voltage Cables (166097-B21) or Vertical-Mount PDU Bracket (191265-B21) depending on your rack configuration. Please see the HP Rack Solution Overview whitepaper at http://www.compaq.com/support/techpubs/index.html for more information.	191265-B21
Third Party Rack Kit	Rack Adapter Kit **NOTE:** This kit allows HP rack servers to fit in racks that are 24" wide.	332815-B21

Options

HP Rack 10000 Series (Graphite Metallic)	10642 (42U) Infrastructure Rack (Low Voltage)	379006-001
	10642 (42U) Infrastructure Rack (High Voltage)	379005-001
	HP Rack S10614 (14U) Rack Cabinet - Shock Pallet	292302-B22
	HP Rack 10842 (42U, 800mm wide) – Pallet	257415-B21
	HP Rack 10842 (42U, 800mm wide) – Shock Pallet	257415-B22
	HP Rack 10647 (47U) – Pallet	245160-B21
	HP Rack 10647 (47U) – Crated	245160-B23
	HP Rack 10642 (42U) – Pallet	245161-B21
	HP Rack 10642 (42U) – Shock Pallet	245161-B22
	HP Rack 10642 (42U) – Crated	245161-B23
	HP Rack 10636 (36U) – Pallet	245162-B21
	HP Rack 10636 (36U) – Shock Pallet	245162-B22
	HP Rack 10636 (36U) – Crated	245162-B23
	HP Rack 10622 (22U) – Pallet	245163-B21
	HP Rack 10622 (22U) – Shock Pallet	245163-B22
	HP Rack 10622 (22U) – Crated	245163-B23
	NOTE: -B21 (pallet) used to ship empty racks shipped on a truck -B22 (shock pallet) used to ship racks with equipment installed (by custom systems, VARs and Channels) -B23 (crated) used for air shipments of empty racks	
	NOTE: It is mandatory to use a shock pallet in order to ship racks with equipment installed. Not all HP equipment is qualified to be shipped in the Rack 10000 series	
	NOTE: Please see the Rack 10000 QuickSpecs for Technical Specifications such as height, width, depth, weight, and color: http://h18000.www1.hp.com/products/quickspecs/10995_div/10995_div.HTML (Worldwide) http://h18000.www1.hp.com/products/quickspecs/10995_na/10995_na.HTML (North America)	
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html.	

Options

Rack Options for Rack 10000 Series	HP Rack Light Kit (Neon)	361589-B21
	HP Rack Plinth Kit (Carbon)	251960-B21
	Baying/Coupling Kit	120669-B21
	NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html.	
	Depth Adjustable Fixed Rail	332558-B21
	Cable Management D-Rings Kit	168233-B21
	TFT5600 Rack Keyboard Monitor	221546-xx1

Country Code Key (for TFT5600 Rack Keyboard Monitor (PN 221546-xx1))

XX = 00	US	XX = 09	Norway
XX = 03	UK	XX = 10	Sweden/Finland
XX = 04	Germany	XX = 11	Switzerland
XX = 05	France	XX = 13	Portugal
XX = 06	Italy	XX = 18	Belgium
XX = 07	Spain	XX = 29	Japan
XX = 08	Denmark	XX = B3	International

1U Rack Keyboard & Drawer (Carbon)	257054-xx1

Country Code Key (for 1U Rack Keyboard & Drawer (PN 257054-xx1)

XX = 00	US	XX = 09	Norway
XX = 03	UK	XX = 10	Sweden/Finland
XX = 04	Germany	XX = 11	Switzerland
XX = 05	France	XX = 13	Portugal
XX = 06	Italy	XX = 18	Belgium
XX = 07	Spain	XX = 29	Japan
XX = 08	Denmark	XX = B3	International

NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://h18000.www1.hp.com/products/servers/proliantstorage/rack-ptions/index.html.

HP KVM Switch Options	Server Console Switch (KVM), 0 x 1 x 8 port	336044-B21
	Server Console Switch (KVM), 0 x 2 x 16 port	336045-B21
	IP Console Switch Box (KVM/IP), 1 x 1 x 16	262585-B21
	IP Console Switch Box (KVM/IP), 3 x 1 x 16	262586-B21
	HP 1x4 USB/PS2 KVM Switch, RM (ALL)	371302-B21
	HP 1x4 USB/PS2 KVM Switch, TT, (EURO)	371301-A21
	HP 1x4 USB/PS2 KVM Switch, TT (UK)	371301-031
	HP 1x4 USB/PS2 KVM Switch, TT, (AUST/NZ)	371301-011
	HP 1x4 USB/PS2 KVM Switch, TT, (NA/JPN)	371301-D71
	PS/2 Interface Adapter, 8 pack	262587-B21
	PS/2 Interface Adapter, 1 pack	262588-B21
	CAT5 KVM Expansion Module	262589-B21
	Serial Interface adapter - 1 Pack with power supply	373035-B21
	CAT5e Cable 3', 4 pack	263474-B21
	CAT5e Cable 6', 8 pack	263474-B22
	CAT5e Cable 12', 8 pack	263474-B23

Options

	CAT5e Cable 20', 4 pack	263474-B24
	CAT5e Cable 40', 1 pack	263474-B25
	NOTE: For additional information regarding HP KVM Switches and options, please see the following URL: http://h18004.www1.hp.com/products/servers/proliantstorage/rack-options/list.html#console	
HP Factory Express	***Factory Installation, Racking, and Customization Services***	
	Factory Express Server Configuration Level 1	293355-888
	NOTE: Free Installation of HP Options - Installation of HP Options memory, NICs, hard drives, controllers, processors, I/O cards, pre-install standard OEM OS image, and tape drives. Installation fees will apply to all non-HP certified hardware and asset tags.	
	Factory Express Server Configuration Level 2	266326-888
	NOTE: Includes Level 1 Customer Intent of a ProLiant server and options configuration, OS installation, custom image download, IP addressing, network setting, and custom packaging. Customer unique requirements (quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, and RILOE). Customer access, validation and control through VPN (price/server).	
	Factory Express Rack Integration Level 3 with 1 – 3 servers or storage enclosures	325736-888
	Factory Express Rack Integration Level 3 with 4 – 9 servers or storage enclosures	232539-888
	Factory Express Rack Integration Level 3 with 10 or more servers or storage enclosures	325735-888
	NOTE: Includes Level 1 Customer Intent for standard mounted servers and storage units plus standard cable mgmt, RAID configuration, servers & storage, power distribution, networking gear and accessories (price/rack).	
	Factory Express Rack Integration Level 4 with 1 – 3 servers or storage enclosures	325734-888
	Factory Express Rack Integration Level 4 with 4 – 9 servers or storage enclosures	232540-888
	Factory Express Rack Integration Level 4 with 10 or more servers or storage enclosures	325733-888
	NOTE: Includes Level 2 Customer Intent plus customer defined cable management and naming convention, customer furnished image download, IP addressing, cluster configurations (SQL, External storage RAID). Quick restore creation, cd duplication, test reports, real-time reporting of server MAC address, password, RILOE). Customer access and validation through VPN (price/rack).	
	Factory Express Rack Integration Level 5 with 1 – 3 servers or storage enclosures	325732-888
	Factory Express Rack Integration Level 5 with 4 – 9 servers or storage enclosures	232541-888
	Factory Express Rack Integration Level 5 with 10 or more servers or storage enclosures	325731-888
	NOTE: Includes Level 4 Customer Intent plus Custom SW layering and extended test, Customer access, validation and control through VPN, Clustered racks with networking gear and / or external storage array, Start-up installation services custom quote. (price/rack). **NOTE**: Factory Express Engineered Solution Level 6 is a custom solutions available through Factory Express. Please contact your local reseller or Account Manager.	

Service and Support Offerings (HP Care Pack Services)	***Hardware Services 4-Hour On-site Service***	
	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years	U4496A
	4-Hour On-site Service, 5-Day x 13-Hour Coverage, 3 Years, Electronic	U4496E
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years	U4497A
	4-Hour On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4497E
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years	U4498A
	6-Hour Call to Repair, On-site Service, 7-Day x 24-Hour Coverage, 3 Years, Electronic	U4498E
	Hardware Services Next Business Day On-Site Service	
	Hardware Installation	U4506A
	Hardware Installation, Electronic	U4506E
	Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays.	U4507A
	Installation & Start-Up of a ProLiant server and Microsoft or Linux O/S per the Customer Description and/or Data Sheet. To be delivered on a scheduled basis 8am-5pm, M-F, excl. HP holidays, Electronic	U4507E
	Support Plus	
	Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays.	U4508A
	Onsite HW support, 8am-9pm, M-F, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic	U4508E
	Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays.	U4510A
	Onsite HW support, 8am-9pm, M-F, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 8am-9pm, M-F 2hr response time excl. HP holidays, Electronic	U4510E
	Support Plus 24	
	Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays.	U4509A
	Onsite HW support 24x7, 4hr response and Microsoft O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U4509E
	Onsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays.	U4511A
	Onsite HW support 24x7, 4hr response and Linux O/S SW Tech support offsite, onsite at HP's discretion, 24x7 2hr response time incl. HP holidays, Electronic	U4511E
	HP Care Pack Priority Services for ProLiant Servers - Priority Silver	
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (2-5-2 Part Number for Canada)	FM-M04E1-36
	24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (2-5-2 Part Number for Canada)	FM-M24E1-36

Options

24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (2-5-2 Part Number for Canada)	FM-N04E1-36
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (2-5-2 Part Number for Canada)	FM-N24E1-36
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System, Technical Account Manager, Technical Newsletter, SW activity review, proactive patch notification, 1 System Healthcheck per year (6-3 Part Number for U.S.)	239932-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Windows NT, Windows 2000, Professional, Server or Advanced Server Operating System (6-3 Part Number for U.S.)	239934-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Software Support, 1-hr response, Monday - Friday, 8AM - 5PM local time, 2-hr response after hours for Novell NetWare Operating System, Technical Account Manager, Technical Newsletter, SW activity review (6-3 Part Number for U.S.)	239972-002
24 x 7 HW, 4-hr response, Named HW engineer; 24 x 7 Silver Subsequent System Support for Novell NetWare Operating System (6-3 Part Number for U.S.)	239974-002

NOTE: For more information, customer/resellers can contact http://www.hp.com/services/carepack.

Memory

HP ProLiant DL360 G3 3.2GHz/2MB Models

Standard Memory

2048-MB PC2100-MHz Registered DDR SDRAM DIMM installed (2 x 1024-MB SDRAM DIMM)

Standard Memory Plus Optional Memory

Up to 6144-MB memory is available with the optional installation of PC2100-MHz Registered DDR SDRAM DIMM memory kits

Standard Memory Replaced with Optional Memory

Up to 8192-MB of memory is available with the removal of the standard 1024-MB of memory and the optional installation of PC2100-MHz Registered DDR SDRAM DIMM memory kits

NOTE: Chart does not represent all possible configurations.

Memory		Slot			
		1	2	3	4
Standard	2048 MB	1024 MB	1024 MB	Empty	Empty
Optional	6144 MB	1024 MB	1024 MB	2048 MB	2048 MB
Maximum	8,192 MB	2048 MB	2048 MB	2048 MB	2048 MB

Following are memory options available from HP:

- 4096-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x2048MB) 300682-B21
- 2048-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x1024MB) 300680-B21
- 1024-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 512MB) 300679-B21
- 512-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 256MB) 300678-B21

HP ProLiant DL360 G3 2.8GHz/512, 2.8GHz/1MB, 3.06GHz/512MB, 3.06GHz/1MB and 3.2GHz/1MB, Models

Standard Memory

1024-MB PC2100-MHz Registered DDR SDRAM DIMM installed (2 x 512-MB SDRAM DIMM)

Standard Memory Plus Optional Memory

Up to 5120-MB memory is available with the optional installation of PC2100-MHz Registered DDR SDRAM DIMM memory kits

Standard Memory Replaced with Optional Memory

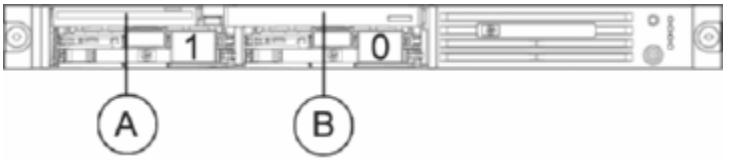
Up to 8192-MB of memory is available with the removal of the standard 1024-MB of memory and the optional installation of PC2100-MHz Registered DDR SDRAM DIMM memory kits

NOTE: Chart does not represent all possible configurations.

Memory		Slot			
		1	2	3	4
Standard	1024 MB	512 MB	512 MB	Empty	Empty
Optional	5,120 MB	512 MB	512 MB	2048 MB	2048 MB
Maximum	8,192 MB	2048 MB	2048 MB	2048 MB	2048 MB

Following are memory options available from HP:

- 4096-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x2048MB) 300682-B21
- 2048-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2x1024MB) 300680-B21
- 1024-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 512MB) 300679-B21
- 512-MB of Advanced ECC PC2100 DDR SDRAM DIMM Memory Kit (2 x 256MB) 300678-B21



1,0	2 x 1 inch Wide Ultra320 Hot Pluggable Hard Drive Bays
A	1.44-MB Diskette Drive (fixed)
B	Low-Profile 24x IDE CD-ROM (ejectable)

Drive Support

	Quantity Supported	Position Supported	Controller
Removable Media			
1.44-MB Diskette Drive	Up to 1	A	Integrated
Low-profile 24x IDE CD-ROM Drive	Up to 1	B	Integrated IDE
Slim Line DVD-Rom Drive (8x/24x) Option Kit (Servers)	Up to 1	B	Integrated IDE

Hard Drives

Ultra320 Hot Pluggable Drives

NOTE: The DL360 G3 only supports U320 Universal drives.

	Quantity Supported	Position Supported	Controller
1-inch	Up to 2	0-1	
300-GB 10,000 rpm 145.6-GB 10,000 rpm 72.8-GB 10,000 rpm 72.8-GB 15,000 rpm 36.4-GB 15,000 rpm			Smart Array 5i plus Controller (integrated on system board) **NOTE:** The ProLiant DL360 G3 does not offer an external SCSI port. Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 5312 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter

Storage

External Storage

	Quantity Supported	Position Supported	Host Controller or Adapter
Modular Smart Array 30 Family	Up to 13	External	Smart Array 6402/128 Controller Smart Array 6404/256 Controller Smart Array 642 Controller 64-Bit/133-MHz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
Modular Smart Array 500 System	1	External	Smart Array 532 Controller (used as Host Bus Adapter) Please see the Modular Smart Array 500 QuickSpecs for the latest list of supported HBAs: http://www.hp.com/go/msa500
Modular Smart Array 1000	Please see the Modular Smart Array 1000 QuickSpecs below to determine configuration requirements	External	Please see the Modular Smart Array 1000 QuickSpecs (URL below) for the latest list of supported HBAs
Modular Smart Array 1500 cs	Please see the Modular Smart Array 1500 cs QuickSpecs below to determine configuration requirements	External	Please see the Modular Smart Array 1500 cs QuickSpecs (URL below) for the latest list of supported HBAs

Modular Smart Array 1000:
http://h18000.www1.hp.com/products/quickspecs/11033_div/11033_div.HTML (Worldwide)
http://h18000.www1.hp.com/products/quickspecs/11033_na/11033_na.HTML (North America)

Modular Smart Array 1500: http://www.hp.com/go/MSA1500cs

Maximum Storage Capacity (SCSI Enclosure Attached)

Internal	600 GB (2 x 300 GB Wide Ultra320 1" Drives)
External	33.60 TB (8 x (14 x 300 GB Wide Ultra320 1" Drives))
Total	34.30 TB

Tape Drives, Tape Autoloaders, & Tape Libraries

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Drives listed below, please see the following:
http://h18000.www1.hp.com/products/quickspecs/North_America/10233.html (North America)
http://h18000.www1.hp.com/products/quickspecs/Division/10233.html (Worldwide)

NOTE: For an up-to-date listing of the latest O/S Support details for each of the Tape Autoloaders and Tape Libraries listed below, please see the following:
http://h18000.www1.hp.com/products/quickspecs/North_America/10809.html (North America)
http://h18000.www1.hp.com/products/quickspecs/Division/10809.html (Worldwide)

NOTE: For complete listing of tape drive offerings see
http://www.hp.com/products1/storage/compatibility/tapebackup/ISS/index.html

	Quantity Supported	Position Supported	Controller

Ultrium 215, External Ultrium 230, External Ultrium 460, External	Up to 2	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
HP StorageWorks DAT 72 Tape Drive, External HP StorageWorks DAT 40 Tape Drive, External HP StorageWorks DAT 24 Tape Drive, External	Up to 2	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
HP StorageWorks DLT VS80 Tape Drive, External	Up to 2	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
HP StorageWorks SDLT 320 Tape Drive, External	Up to 2	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
HP StorageWorks DAT 72x6 Tape Autoloader, External HP StorageWorks DAT 40x6 Tape Autoloader, External 1/8 Ultrium 460 Tape Autoloader 1/8 SDLT 320 Tape Autoloader 1/8 Ultrium 230 Tape Autoloader 1/8 DLT VS80 Tape Autoloader SSL1016 Ultrium 460 Tape Autoloader SSL1016 SDLT 320 Tape Autoloader SSL1016 DLT1 Tape Autoloader	1 autoloader per SCSI channel	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS
MSL6000 (Ultrium 460 -based) Tape Library MSL5026S2 (SDLT 320-based) Tape Library MSL5052S2 (SDLT 320-based) Tape Library MSL5030 (Ultrium 230 -based) Tape Library MSL5060 (Ultrium 230	Please reference the MSL Tape Library QuickSpecs to determine configuration requirements	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS

Storage

-based) Tape Library

ESL712e ESL630e ESL9322 ETLA ESL9595 ETLA	Please reference the ESL e-series & ESL9000 Series Tape Libraries QuickSpecs to determine configuration requirements	External	64-Bit/133Mhz Dual Channel Ultra320 SCSI Adapter 64-Bit/66-MHz Dual Channel Wide Ultra3 SCSI Adapter, Alternate OS

Power Specifications

Part Number	280127-001
Spare Kit	305447-001
Operational Input Voltage Range (V rms)	90 - 264
Frequency Range (Nominal) (Hz)	47 - 63 (50/60)

Nominal Input Voltage (Vrms)	**100**	**115**	**208**	**220**	**230**	**240**
Max Rated Output Wattage Rating	325					
Nominal Input Current (A rms)	4.5	3.9	2.1	2.0	1.9	1.8
Max Rated Input Wattage Rating (Watts)	445	442	433	428	425	422
Max. Rated VA (Volt-Amp)	454	451	442	437	434	431
Efficiency (%)	73.1	73.6	75.1	75.9	76.4	77
Power Factor	0.98					
Leakage Current (mA)	0.31	0.36	0.65	0.69	0.72	0.75
Maximum Inrush Current (A peak)	30					
Maximum Inrush Current duration (miliseconds)	20					

System Specifications

ProLiant DL360 Generation 3 Fully Configured

Up to 2 Processors, 4 Memory Slots, 2 Hard Drives, 2 PCI Slots, and 1 Hot Plug Power Supply

	Processor	**Memory**	**HDD**	**PCI**	**PS**	
DL360 G3 Fully configured	2	4	2	2	1	
Fully Loaded System Input Wattage (W)	361	359	352	348	346	343
Fully Loaded System Thermal (BTU-Hr)	1232	1223	1199	1186	1178	1169
System Leakage with all power supplies loaded (mA)	0.31	0.36	0.65	0.69	0.72	0.75
System Inrush Current with all power supplies loaded (A)	30					
Power cord requirements	Nema 5-15P to IEC320-C13 Option no./Spare no: 293703-001					
	IEC320-C13 to IEC320-C14 Option no./Spare no.: 293703-B21					

NOTES:

* - To review typical system power ratings use the Active Answers Power Calculator which is available via the online tool located at URL: http://h30099.www3.hp.com/configurator/powercalcs.asp.

To drill down to calculators:
- Click on: "ProLiant Servers"
- Click on the Server of interest. Example: DL360 G3
- Click on: "Power Calculator" link. (You may need to scroll down to see it)

System Unit	**Dimensions** (HxWxD)	1.70 x 16.78 x 27.25 in (4.32 x 42.62 x 69.22 cm)	
	Weight	Two hard drives installed, two power supply, two processor	37 lb (16.78 kg)
		No hard drives installed, one power supply, one processor	27.5 lb (12.47 kg)
		Hard drives installed, one power supply, one processor	32.5 lb (4.75 kg)
	Input Requirements	Range Line Voltage	100 to 240 VAC
		Voltage	100 to 120 VAC/200 to 240 VAC
		Rated Input Current	5A (100VAC) to 2.5A (200VAC)
		Rated Input Frequency	50 to 60 Hz
		Rated Input Power	450 W (100VAC) **NOTE:** 450 W of Rated Input Power is for the Maximum Peak Output Power of 325 W.
	BTU Rating	1535 BTUs/hr **NOTE:** The BTU rating listed is for the Rated Input Power of 325 W.	
	Power Supply Output Power (per power supply)	Maximum Peak Power	325 W
		Maximum Peak Output Power	325 W
	Temperature Range	Operating	50° to 95° F (10° to 35° C)
		Shipping	-22° to 122° F (-30° to 50° C)
	Relative Humidity (non-condensing)	Operating	8% to 90%
		Shipping	5% to 95%
	Acoustic Noise	Idle (Fixed Disk Drives Spinning)	
		L_{WAd} (BELS)	6.5
		L_{pAm} (dBA)	51
		Operating (Random Seeks to Fixed Disks)	
		L_{WAd} (BELS)	7.6 **NOTE:** These values apply to ROMs dated after Jan. 31, 2003.
		L_{pAm} (dBA)	59 **NOTE:** These values apply to ROMs dated after Jan. 31, 2003.

Technical Specifications

24X Max (or higher) **IDE CD-ROM Drive Slim Line**	**Disk**	Applicable Disk	CD-ROM (Mode 1 and 2) CD-DA, CD-XA (Mode 2, Form 1 and 2) Photo CD (Single and Multi-session) Mixed Mode (Audio and Data combined)
		Capacity	540 MB (Mode 1, 12 cm) 650 MB (Mode 2, 12 cm)
		Diameter	4.7 in, 3.15 in/12 cm, 8 cm
		Rotational Speed	4200 rpm maximum
		Center Hole	0.6 in/15 mm diameter
		Thickness	1.2 mm
		Track Pitch	1.6 mm
	Block Size	Mode 1	2,048
		Mode 2	2,340, 2,336, 1,024 bytes
		CD-DA	2,352 bytes
		CD-XA	2,328 bytes
	Interface	IDE (ATAPI)	
	Access Times (typical)	Random	100 ms
		Full-Stroke	2000 ms
	Audio Output Level	Line-Out	0.7 VRMS at 47 kOhms
		Headphone	0.6 VRMS at 32 kOhms (maximum volume)
	Data Transfer Rate	Sustained	150 KB/s (single)
		Burst	2100 to 3600 KB/s
	Cache Buffer	128 KB	
	Start-up Time (typical)	< 7 seconds	
	Stop Time	< 4 seconds	
	Laser Parameters	Type	Semiconductor Laser GaA1As
		Wave Length	780 ± 25 nm
	Operating Conditions	Temperature	41° to 113° F (5° to 45° C)
		Humidity	10% to 80%
	Dimensions	(HxWxD, maximum)	1.69 x 5.75 x 8.19 in (4.29 x 15 x 20.8 cm)
		Weight	2.66 lb (1.2 kg)

Technical Specifications

Integrated Lights-Out (integrated on system board)	**Architecture**	32-bit PCI-based health and remote management ASIC (Application Specific Integrated Circuit)
	Processor	32-bit RISC processor core running at 66MHz
	Upgradability	Option firmware upgradable via flash ROM.
	Video Support	Utilizes the host server's embedded video chip. Supports VGA/SVGA, 640 x 480 (256 to 16.7 M colors), 800 x 600 (256 to 16.7 M colors), 1024 x 768 (256 to 65K colors), 1280 x 1024 (256 colors)
	Interfaces	One Ethernet network connection (10/100 Mb/s)
	Memory	2-MB Flash ROM 8-MB SDRAM
	Operating System Support	Microsoft Windows NT 4.0 Server Windows NT 4.0 Enterprise Edition Windows 2000 Server Windows 2000 Advanced Server Windows .NET Server Windows .NET Advanced Server Red Hat 7.x SuSE 7.0 Caldera Open Linux Server 3.1 Novell NetWare 5.x, 6.x **NOTE:** The ProLiant DL360 Generation 3 (G3) does not offer an external SCSI port.
	Client Browser Support	Microsoft Internet Explorer 5.0 or later.
	iLO Standard Features	Virtual Text Remote Console Virtual Power Button Control Dedicated LAN Connectivity Automatic IP Configuration via DHCP/DNS/WINS Industry Standard 128-bit Secure Sockets Layer (SSL) Security IML and iLO Event Logging Support for up to 12 user accounts with customizable access privileges
	iLO Advanced Features	Virtual Graphical Remote Console Virtual Floppy Drive Virtual CD Drive (free upgrade for systems with licensed iLO Advanced)
Smart Array 5i plus Controller (integrated on system board)	**Data Compatible with all Smart Array Controllers**	Yes
	Instant Upgrades to other Smart Array Controllers	Yes
	Consistent Software Manageability Tools	Yes
	PCI-X Bus	64-bit, 100 MHz (integrated on system board)
	PCI-X Peak Data Transfer Rate	800 MB/s
	SCSI Protocols Supported	Ultra3, Ultra2
	SCSI Peak Data Transfer Rate	160 MB/s per channel **NOTE**: For ProLiant servers having TWO internal drive bays on separate SCSI channels: SCSI Peak Data Transfer Rate is 320 MB/s total; 160 MB/s per channel.
	Channels	2

	SCSI Ports (external/internal)	0/1
	Drives Supported (maximum)	Maximum = total number of drives **NOTE**: Maximum is the total number of internal drives on each specific ProLiant server.
	Cache	64 MB Read and/or Write Cache
	Battery-Backed Write Cache	Yes, with installation of Battery-Backed Write Cache Enabler, up to 64MB
	RAID Support	0, 1, 1+0, 5
	Logical Drives (maximum)	Maximum = total number of drives
	Online Configuration	Yes
	Online Capacity Expansion	Yes
	Logical Drive Capacity Extension	Yes
	Online Stripe Size Migration	Yes
	Online RAID Level Migration	Yes
	Online Spare Support	Yes
	Automatic Data Recovery	Yes
	Drive Roaming	Yes
	Redundant Controllers	No
Two NC7781 PCI-X Gigabit NICs (embedded) **Server Adapter**	**Network Interface**	10/100/1000-T
	Compatibility	EEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 80.3u 100Base-TX
	Data Transfer Method	64-bit/66MHz PCI-X
	Network Transfer Rate	10Base-T (Half-Duplex) 10 Mb/s 10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s 100Base-TX (Half-Duplex) 1000 Mb/s 1000Base-TX (Full-Duplex) 2000 Mb/s
	Connector	RJ-45
	Cable Support	10Base-T Categories 3, 4 or 5 UTP up to 328 ft (100 m) 10/100/1000 Base-TX Category 5 UTP up to 328 ft (100 m)

Technical Specifications

© Copyright 2004 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation. Intel is a US registered trademark of Intel Corporation.

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.